Title (en)

MEASUREMENT OF THE HOMOGENEOUS TEMPERATURE OF A COIL BY INCREASING THE RESISTANCE OF A WIRE

Title (de)

MESSUNG DER HOMOGENEN TEMPERATUR EINER SPULE DURCH ERHÖHUNG DER RESISTENZ EINES DRAHTES

Title (fr)

MESURE DE LA TEMPERATURE HOMOGENE D'UN BOBINAGE PAR AUGMENTATION DE LA RESISTANCE D'UN FIL

Publication

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Application

EP 14708631 A 20140213

Priority

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Abstract (en)

[origin: WO2014125220A1] The invention relates to a method of measuring the temperature of a coiled component comprising the injection of a known DC current into a gauge wire (1) made of resistive material, the resistance of the gauge wire varying with temperature according to a known law, the measurement of potential difference between the terminals (7a, 7b) of said gauge wire, and a step of calculation transforming the potential difference into a mean temperature of the gauge wire, said gauge wire (1) being wound inside the coil, and arranged as a series of "outbound" turns (5) and a series of "inbound" turns (6) associated pairwise with a geometry and a position that are substantially equal. It also relates to a component made in order to be able to implement this method and the measurement device as a whole.

IPC 8 full level

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CPC (source: EP RU US)

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Citation (search report)

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